

# DETERMINATOR™ FOR 4 (Ford 8 cut system with HUF locks)

The FOR 4 **DETERMINATOR™** set works on Ford vehicles using the Ford 8 cut system with HUF locks. **Refer to the Determinator™ Vehicle Application Chart.** When used properly you will be able to generate a key for a vehicle in just a few moments.

There are two keys in the **DETERMINATOR™** FOR 4 set. One is stamped with a "5" and the other is stamped with a "B". The "5" **DETERMINATOR™** will trap tumblers with a depth of 5. It will pass tumblers with depths of 1, 2, 3, and 4. The "B" traps tumblers with depths of 3, 4 and 5. It will pass tumblers with a depth of 1 or 2.

## THE TOOL

The **DETERMINATOR™** is a decoding tool and a tumbler release tool. The **DETERMINATOR™** has numbers stamped on the side of the blade. These numbers correspond to the tumbler space locations. When the tool is inserted into the lock, the number closest to the face of the lock indicates the space which is being determined.

When the **DETERMINATOR™** traps a tumbler you will use the spring steel release tool to raise the tumbler and withdraw the **DETERMINATOR™** to the next tumbler location. Slide the release tool along the slot in the side of the tool, sloped end first. You will feel it raise the tumbler, slowly pull the **DETERMINATOR™** out a little to the next space and remove the release tool.

## RULES

MAC = 2

## NOTES:

- You may want to cut your ODD spaces on one side of the key and your EVEN spaces on the other side.
- The ignition has tumblers on ONE side only.
- The H75 keyblank **WILL NOT** go into the ignition completely. Use the H54/H60 key blank to cut your mechanical key for the ignition. When you have a working key, transfer your cuts to the TRANSPONDER keyblank.
- Degrease the lock well. These locks contain a lot of grease from the factory which can cause the tumblers to not seat fully.



The FOR 4 Determinator™ uses the regular release tool.

## STEPS

1. Degrease the passenger door lock with a quick drying spray and run a key blank in and out a few times.
2. Insert the "B" tool fully into the door lock.
3. Slowly pull the tool out of the lock with a slight left and right motion.
4. Take note of the space number of each tumbler that gets trapped.
5. Record an "B" for every space that traps a tumbler. Flip the tool over and decode the opposite side of the lock. After you have decoded both sides of the lock, **THEN** all other spaces that passed record an "A".
6. Insert the "5" tool. Slowly pull it out, taking note of each space number that gets trapped.
7. Record a "5" for every space that gets trapped. Flip the tool over and decode the opposite side of the lock.

8. Now you should have some "A"s, "B"s, and "5"s on your chart. Cut your "A"s to a 1 depth (or 1 ½ depth), cut your "B"s to a 3 depth (or 3 ½ depth) and cut your "5"s as 5 depths.
9. Insert your key into the lock and turn. You may want to use your impressing pliers for a little more torque. Use your locksmithing judgement on how far to turn the key.
10. Look for impression marks. Any "A" cut that marked you will cut to a 2 depth. Any "B" cut that marked you will cut to a 4 depth.
11. If you used ½ cuts, you may want to cut a new key and raise any "A" spaces that did not mark to a 1 depth and raise any "B" spaces that did not mark to a 3 depth.
12. You will now have an operable key for the door lock. Refer to the following pages for code charts to get the cuts for spaces 7 and 8 for the ignition.

**NOTE:** The following combinations **WILL NOT** be found in spaces 1 and 2:

2,2      2,3      3,3      3,4      4,4      4,5      5,5

Use the progression chart, or the code charts on the following pages, to obtain the cuts for spaces 7 and 8.

### FORD 8 CUT PROGRESSION CHART

If space 6 is a 1			If space 6 is a 2			If space 6 is a 3			If space 6 is a 4			If space 6 is a 5		
12	22		12	22	33	12	22	42	22	32	42	32	42	53
13	32		13	32		13	32	53	23	33	53	33	43	
23	33		23	42		23	33		24	43		34	44	
24			24	43		24	43		34	44		35	54	
34			34	44		34	44		35	54		45		
35			35			35	54		45			55		
			45			45			55					
						55								

Progress spaces 7 and 8.  
 The ignition has tumblers on only one side.  
 There are no number 1 depths in space 8.  
 MACS is 2.

### FRAMON CUTTING INFORMATION

DETERMINATOR	CUTS START	CUT TO CUT	DEPTHS				
FOR 4	.405	.092	1=.354	2=.329	3=.304	4=.279	5=.254
(tip stop, narrow side of vise)			1½=.341	2½=.316	3½=.291	4½=.266	

HPC CARD - CX101

FORD 8 CUT CODE CHART  
GROUPED BY FIRST 6 CUTS

11112422	11235324	11324533	11355343	12135545	12313534	12353245
11112424	11235343	11324542	11355312	12211213	12313543	12353223
11113533	11235423	11331242	11355334	12211312	12321323	12353322
11113535	11242135	11331324	11355433	12212113	12321332	12353443
11121322	11242133	11331354	11355424	12212435	12321354	12353434
11121324	11242353	11332124	11355532	12212433	12322133	12353542
11122312	11242313	11332322	12111322	12213134	12322313	12354213
11123122	11242434	11332435	12111324	12213112	12323132	12354235
11123124	11242443	11333421	12112135	12213243	12323123	12354244
11123212	11243123	11334212	12112123	12213323	12323213	12354343
11123532	11243132	11334244	12112132	12213432	12323235	12354312
11124243	11243213	11334324	12112213	12213544	12323312	12354334
11124235	11243244	11334532	12112312	12223133	12323434	12354424
11124323	11243312	11335342	12113122	12223313	12323542	12354433
11124422	11243433	11335355	12113212	12223534	12324244	12354532
11131343	11243424	11335422	12113234	12224533	12324324	12355324
11132124	11243532	11335535	12113324	12231323	12324343	12355342
11132122	11243545	11342132	12113433	12231354	12324433	12355432
11132212	11244243	11342123	12113532	12231332	12324532	12355423
11132423	11244234	11342213	12121132	12232133	12324545	12421132
11132435	11244212	11342312	12121213	12232135	12324522	12421313
11132432	11244324	11342343	12121312	12232313	12331322	12421353
11133422	11244423	11342433	12121343	12233123	12332132	12422343
11133534	11244535	11342442	12122113	12233132	12332123	12422433
11134232	11245323	11343113	12122433	12233213	12332213	12423135
11134223	11245345	11343122	12122435	12233312	12332312	12423113
11134322	11245332	11343234	12123112	12233424	12332434	12423234
11134313	11245422	11343212	12123243	12234324	12333122	12423243
11135312	11245435	11343243	12123323	12234532	12333212	12423324
11135353	11311343	11343324	12123432	12235342	12333424	12423342
11135334	11312122	11343432	12123544	12235323	12334224	12423432
11135424	11312212	11343423	12124233	12235355	12334242	12423423
11135433	11312243	11344224	12124332	12235432	12334422	12423554
11135532	11312342	11344233	12124313	12235535	12334535	12423545
11211322	11312423	11344242	12124354	12242343	12335354	12424233
11211324	11312432	11344323	12124435	12242433	12335322	12424355
11212123	11312454	11344422	12124543	12243113	12335345	12424332
11212135	11312435	11345322	12124534	12243243	12335435	12424323
11212132	11313131	11345313	12121243	12243234	12335534	12424535
11212213	11313224	11345354	12131212	12243324	12342113	12424553
11212312	11313242	11345335	12131342	12243423	12342243	12431213
11213122	11313422	11345434	12132112	12243432	12342342	12431312
11213212	11313553	11353134	12132354	12243535	12342423	12431343
11213234	11313544	11353112	12132332	12244233	12342432	12432113
11213324	11321243	11353224	12132323	12244323	12342454	12432135
11213433	11321212	11353242	12132453	12245335	12343134	12432243
11213532	11321342	11353354	12133135	12245313	12343112	12432342
11221213	11322112	11353435	12133223	12245354	12343242	12432423
11221312	11322134	11353422	12133232	12245434	12343224	12432432
11223112	11322323	11353453	12133322	12311212	12343422	12432454
11223423	11323124	11353534	12133543	12311243	12343544	12433112
11224233	11323223	11353543	12134213	12311342	12344223	12433134
11224313	11323232	11354223	12134344	12312112	12344232	12433242
11224534	11323245	11354232	12134312	12312134	12344322	12433224
11231212	11323322	11354245	12134353	12312332	12344313	12433422
11231243	11323534	11354335	12134424	12312354	12344534	12433535
11231342	11323543	11354344	12134542	12312323	12345353	12433544
11232112	11324235	11354313	12134533	12312453	12345334	12434223
11232323	11324213	11354353	12135343	12313124	12345312	12434232
11233135	11324311	11354322	12135324	12313223	12345424	12434335
11234213	11324353	11354434	12135442	12313232	12345533	12434322
11234312	11324312	11354542	12135455	12313245	12353124	12434313
11234533	11324434	11354533	12135423	12313322	12353232	

FORD 8 CUT CODE CHART  
GROUPED BY FIRST 6 CUTS

12434534	13112435	13212112	13243242	13345532	13442124	13534432
12434543	13112423	13212134	13243224	13353222	13442133	13534423
12435353	13112432	13212354	13243422	13353244	13442232	13534554
12435334	13112454	13212323	13243453	13353442	13442353	13534545
12435312	13113134	13212332	13243544	13354212	13442322	13535345
12435424	13113242	13212453	13244232	13354234	13442313	13535435
12435443	13113224	13213124	13244223	13354243	13442435	13535454
12435542	13113422	13213223	13244313	13354342	13443132	13535422
12435533	13113553	13213232	13244354	13354324	13443123	13535544
12442112	13113544	13213245	13244322	13354432	13443222	13542343
12442134	13121243	13213222	13244335	13354423	13443235	13542424
12442354	13121212	13213543	13244534	13354545	13443213	13542433
12442323	13121342	13213534	13244543	13355345	13443312	13542442
12442332	13122112	13221332	13245334	13355435	13443532	13543135
12442453	13122134	13221354	13245312	13355422	13444212	13543234
12443124	13122332	13221323	13245353	13421213	13445355	13543243
12443133	13122354	13222133	13245443	13421343	13445332	13543342
12443245	13122323	13222313	13245424	13421312	13445323	13543324
12443232	13122453	13223132	13245542	13422135	13445422	13543432
12443223	13123124	13223123	13245533	13422113	13445535	13543423
12443322	13123232	13223213	13311242	13422243	13453113	13543454
12443313	13123223	13223235	13311354	13422342	13453135	13543545
12443435	13123245	13223312	13311324	13422423	13453122	13544233
12443533	13123322	13223424	13312124	13422454	13453243	13544224
12444235	13123543	13223542	13312232	13422432	13453234	13544242
12444213	13123534	13224244	13312322	13423134	13453212	13544354
12444312	13124213	13224324	13313222	13423112	13453342	13544332
12445333	13124235	13224343	13313424	13423242	13453432	13544323
12445324	13124353	13224423	13313542	13423224	13453423	13544345
12445423	13124344	13224545	13321232	13423422	13453454	13544422
12445432	13124312	13224532	13321322	13423553	13453553	13544535
12445432	13124424	13231232	13322123	13423544	13453545	13545322
12453132	13124443	13231322	13322132	13423535	13454224	13545313
12453123	13124533	13232123	13322213	13424232	13454242	13545344
12453213	13124542	13232132	13322312	13424223	13454233	13545335
12453244	13131242	13232213	13322434	13424322	13454354	13545453
12453235	13131354	13232312	13323122	13424335	13454323	13545434
12453343	13131324	13232434	13323212	13424354	13454332	13545543
12453312	13131324	13232442	13323244	13424354	13454332	13545543
12453442	13132124	13233122	13323545	13424453	13454422	13553134
12453433	13132232	13233212	13324242	13424543	13454422	13553112
12453424	13132322	13233212	13324242	13424543	13454535	13553242
12453532	13133222	13233244	13324224	13424534	13455322	13553224
12454212	13133424	13233545	13324355	13431243	13455313	13553354
12454234	13133542	13234242	13324422	13431342	13455335	13553422
12454243	13134212	13234224	13324544	13431324	13455344	13553453
12454342	13134244	13234355	13324535	13432134	13455344	13553534
12454324	13134324	13234422	13331212	13432242	13531212	13553543
12454333	13134442	13234535	13332112	13432354	13531232	13554245
12454355	13134423	13234544	13332424	13432422	13531354	13554232
12454423	13134545	13235345	13335424	13432453	13532132	13554223
12454432	13134532	13235322	13342134	13433124	13532124	13554335
12454545	13134554	13235354	13342242	13434213	13532112	13554344
12455345	13135342	13235453	13342354	13434235	13532434	13554322
12455332	13135355	13235434	13342324	13434222	13532443	13554313
12455323	13135422	13235543	13342422	13434312	13533244	13554353
12455422	13135445	13242113	13342453	13434542	13533442	13554434
12455435	13135454	13242243	13343124	13435324	13533424	13554542
13111343	13135535	13242342	13344213	13435342	13534243	13554533
13112122	13135544	13242432	13344222	13435432	13534234	13555343
13112212	13135553	13242454	13344235	13435455	13534212	13555334
13112243	13211243	13242423	13344312	13435423	13534324	13555312
13112342	13211212	13243112	13345324	13435545	13534342	13555424
	13211342	13243134	13345423			13555433

## FORD 8 CUT CODE CHART GROUPED BY FIRST 6 CUTS

21113232	24213312	24242332	24324313	24354345	24453134	24543323
21121232	24213343	24242354	24324322	24354323	24453224	24543332
21121353	24213433	24242453	24324335	24354422	24453233	24543354
21122132	24213424	24243124	24324354	24354453	24453242	24543453
21124342	24213442	24243133	24324453	24354535	24453323	24543422
21132243	24213532	24243232	24324534	24355313	24453332	24543534
21132342	24221353	24243223	24324543	24355322	24453354	24543543
21132454	24221313	24243313	24331243	24355335	24453453	24544232
21133242	24222343	24243322	24331324	24355344	24453422	24544223
21134354	24222433	24243353	24331342	24355434	24453543	24544322
21134543	24223113	24243435	24332134	24355543	24453534	24544313
21211232	24223135	24243533	24332242	24421132	24454223	24544353
21211353	24223243	24244213	24332354	24421212	24454232	24544335
21213343	24223234	24244235	24332422	24421342	24454335	24544533
21221132	24223324	24244312	24332453	24422112	24454353	24544232
21221343	24223342	24245324	24333124	24422134	24454322	24545343
21223243	24223423	24245333	24334235	24422354	24454313	24545312
21223432	24223432	24245423	24334222	24422323	24454533	24545433
21224354	24223554	24245432	24334213	24422332	24455312	24545532
21224332	24223545	24245455	24334312	24422453	24455334	24553124
21224543	24224233	24245554	24334542	24423124	24455343	24553133
21232332	24224355	24245545	24335342	24423133	24455433	24553232
21232354	24224332	24311353	24335324	24423223	24531353	24553245
21232453	24224323	24311322	24335455	24423232	24532343	24553223
21233323	24224435	24311313	24335432	24423313	24532424	24553353
21233543	24224553	24312123	24335423	24423322	24532442	24553313
21234353	24231132	24312213	24335545	24423353	24532433	24553322
21234542	24231213	24312343	24342133	24423435	24533135	24553434
21235442	24231343	24312312	24342124	24423533	24533243	24553443
21243343	24231312	24312433	24342232	24424213	24533234	24553533
21243442	24232135	24312442	24342313	24424235	24533324	24553542
21244342	24232113	24313135	24342322	24424312	24533342	24554222
21244432	24232243	24313113	24342353	24424532	24533423	24554213
21245454	24232342	24313122	24342435	24431323	24533454	24554235
21322354	24232432	24313234	24343132	24431332	24533432	24554312
21322332	24232454	24313243	24343123	24431354	24533545	24554334
21322453	24232423	24313212	24343213	24432124	24534233	24554343
21324443	24233112	24313342	24343222	24432313	24534224	24554433
21324432	24233134	24313324	24343235	24432322	24534242	24554532
21332232	24233242	24313423	24343312	24432353	24534332	24555324
21332443	24233242	24313432	24343532	24432435	24534345	24555333
21333542	24233422	24313454	24344212	24433132	24534323	24555342
21335454	24233553	24313545	24345355	24433123	24534422	24555423
21343342	24233544	24321213	24345323	24433213	24534553	24555432
21343454	24233544	24321343	24345332	24433235	24534535	31112242
21344332	24233535	24321312	24345435	24433222	24535313	31112442
21345453	24234232	24322135	24345422	24433312	24535353	31113353
21345543	24234223	24322113	24353113	24433532	24535335	31113553
21354443	24234313	24322243	24353135	24434212	24535322	31133453
21355442	24234354	24322342	24353122	24435345	24535344	31223342
24211132	24234335	24322423	24353234	24435323	24535443	31224453
24211323	24234322	24322454	24353243	24435332	24535434	31245553
24211354	24234453	24322432	24353212	24435435	24535533	31334442
24211332	24234543	24322432	24353342	24435422	24542135	31335553
24212124	24234534	24323134	24353342	24442113	24542243	31344553
24212313	24235353	24323112	24353432	24442122	24542342	32111232
24212353	24235312	24323242	24353454	24442212	24542324	32111353
24212443	24235334	24323224	24353423	24442212	24542324	32111353
24212434	24235424	24323422	24353553	24443135	24542423	32113343
24213132	24235433	24323544	24353545	24443112	24542432	32122454
24213123	24235542	24323535	24354242	24445313	24543134	32123342
24213213	24242112	24323553	24354233	24445353	24543233	32124453
24213235	24242134	24324223	24354224	24445322	24543242	32134443
24213244	24242323	24324232	24354332	24445335	24543224	32135554

## FORD 8 CUT CODE CHART GROUPED BY FIRST 6 CUTS

32211132	35323443	35345434	35433243	35453443	35543245	43435554
32211343	35323434	35345443	35433234	35453434	35543223	43454453
32212454	35323542	35345533	35433324	35453533	35543232	43455543
32213342	35324244	35353134	35433342	35453542	35543313	43544553
32223543	35324235	35353112	35433454	35454222	35543322	43554443
32224353	35324213	35353224	35433432	35454213	35543353	43555442
32232353	35324343	35353242	35433423	35454235	35543443	53445553
32233542	35324312	35353354	35433545	35454343	35543434	54335554
32234343	35324334	35353453	35434242	35454334	35543533	54345553
32235454	35324433	35353422	35434233	35454312	35543542	54435553
32243342	35324442	35353543	35434224	35454433	35544213	54443553
32243454	35324424	35353534	35434345	35454532	35544235	54455542
32244332	35324532	35354245	35434332	35455342	35544222	
32245453	35331212	35354232	35434323	35455333	35544312	
32245543	35331354	35354223	35434422	35455324	35544334	
32322353	35332112	35354353	35434535	35455423	35544343	
32323443	35332124	35354344	35434553	35455432	35544433	
32324442	35332443	35354322	35435322	35531213	35544532	
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